

Application Serial No. 10/714,918  
Reply to Office Action of September 18, 2006.

AMENDMENTS TO THE SPECIFICATION

Please insert the following on page 85 after chart 1B:



Chart 1B “o” represents “excellent”.

Please insert the following on page 87 after chart 2B:

In Chart 2B “o” represents “excellent” and “x” represents “poor”.

Please insert the following on page 89 after chart 3B:

In Chart 3B “o” represents “excellent” and “x” represents “poor”.

Please amend Chart 3A appearing on page 88 as follows:

Sample No.	NdFeB Coarse Magnet Powder (Co-less)										SmFeN Coarse Magnet Powder 10%Sm-7%Fe-13%N (a%)				Epoxy Resin Mixture Ratio (%)	
	Composition (at%)										Surfactant	Average Grain Diameter (μm)	Mixture Ratio	Average Mixture Ratio		
	Nd	Dy	B	Fe	Ga	Nb	Zr	Co	La	Pr						
B1	12.5	-	6.4	Bal.	0.3	0.2	-	-	-	-	Yes	106	98	-	-	
B2	12.5	-	6.4	Bal.	0.3	0.2	-	-	-	-	Yes	106	98	-	-	
C1	12.7	-	6.2	Bal.	0.3	0.2	-	-	-	0.1	Yes <u>No</u>	106	78	Yes	3	
C2	12.7	-	6.2	Bal.	0.3	0.2	-	-	-	0.1	Yes	106	78	Yes <u>No</u>	3	
C3	12.7	-	6.2	Bal.	0.3	0.2	-	-	-	0.1	Yes <u>No</u>	106	78	No	3	
D1	13.5	0.5	6.4	Bal.	0.3	0.2	-	-	-	-	Yes	45 <u>35</u>	78	Yes	3	
D2	13.5	0.5	6.4	Bal.	0.3	0.2	-	-	-	-	Yes	425	78	Yes	3	
E1	12.5	-	6.4	Bal.	0.3	0.2	-	-	-	-	Yes	106	45	Yes	3	
E2	12.5	-	6.4	Bal.	0.3	0.2	-	-	-	-	Yes	106	88	Yes	3	
F1	12.5	-	6.4	Bal.	0.3	0.2	-	-	-	-	Yes	106	79.5	Yes	3	
F2	12.5	-	6.4	Bal.	0.3	0.2	-	-	-	-	Yes	106	73	Yes	3	

First Comparison Example

Please amend Chart 3A appearing on page 88 as follows:

Sample No.	NdFeB Coarse Magnet Powder (Co-less)										SmFeN Coarse Magnet Powder 10%Sm-7%Fe-13%N (at%)			Epoxy Resin Mixture Ratio (%)	
	Composition (at%)										Surfactant	Average Grain Diameter (μm)	Mixture Ratio		
	Nd	Dy	B	Fe	Ga	Nb	Zr	Co	La	Pr					
B1	12.5	-	6.4	Bal.	0.3	0.2	-	-	-	-	Yes	106	98	-	
B2	12.5	-	6.4	Bal.	0.3	0.2	-	-	-	-	Yes	106	98	-	
C1	12.7	-	6.2	Bal.	0.3	0.2	-	-	-	-	Yes	106	98	-	
C2	12.7	-	6.2	Bal.	0.3	0.2	-	-	-	-	Yes	106	78	Yes	
C3	12.7	-	6.2	Bal.	0.3	0.2	-	-	-	-	Yes	106	78	Yes	
D1	13.5	0.5	6.4	Bal.	0.3	0.2	-	-	-	-	Yes	45.35	78	Yes	
D2	13.5	0.5	6.4	Bal.	0.3	0.2	-	-	-	-	Yes	425	78	Yes	
E1	12.5	-	6.4	Bal.	0.3	0.2	-	-	-	-	Yes	106	45	Yes	
E2	12.5	-	6.4	Bal.	0.3	0.2	-	-	-	-	Yes	106	88	Yes	
F1	12.5	-	6.4	Bal.	0.3	0.2	-	-	-	-	Yes	106	79.5	Yes	
F2	12.5	-	6.4	Bal.	0.3	0.2	-	-	-	-	Yes	106	73	Yes	

First Comparison Example

Please amend Chart 3B appearing on page 89 as follows:

Sample No.	Max Energy Product (BH) <sub>max</sub> (kJ/m <sup>3</sup> )	Relative Density (%)	Irreversible Loss (%)	Normalized grain count of NdFeB coarse magnet powder in the bonded magnet (x10 <sup>3</sup> pieces/m <sup>3</sup> )	Even dispersion of SmFeN fine magnet powder on the entire surface of NdFeB coarse magnet powder	Point of Comparison	
B1	145	80	87	-18.0	-29.0	1.43	-
B2	165	82	89	-21.0	-31.0	1.55	-
C1	180	87	94	-6.6	-8.2	1.21	x
C2	182	87	94	-7.5	-9.2	1.25	x
C3	177	85	94	-14.2	-20.2	1.30	x
D1	127	94	95	-4.0	-5.8	1.05	o
D2	135	95	96	-3.5	-5.0	0.72	o
E1	160	90	93	-4.5	-6.0	0.56	o
E2	175	92	94	-6.0	-7.9	1.21	x (Not entire surface)
F1	180	92	93	-7.0	-8.8	1.26	o
F2	130	94	96	-3.0	-5.1	0.54	o

First Comparison Example